STATEMENT OF WORK
FOR THE
MINE CLEARANCE LAUNCHER
MK 154
NSN 1055-01-226-6338
Inspect Repair Only As Necessary
(IROAN)
B1315

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STATEMENT OF WORK FOR THE
MINE CLEARANCE LAUNCHER MK 154
NSN 1055-01-226-6338
Inspect Repair Only As Necessary (IROAN)

1.0 SCOPE. This Statement of Work (SOW) establishes and sets forth tasks and identifies the work efforts that shall be performed by the Contractor in the IROAN effort of the MINE CLEARANCE LAUNCHER MK 154, hereafter referred to as the MK 154. This document contains requirements to restore the MK 154 to Condition Code "A". Condition Code "A" is defined as "serviceable/issuable without qualification, new, used, repaired or reconditioned materiel which is serviceable and issuable to all customers without limitation or restriction, including materiel with more than six months shelf-life remaining." National Stock Number (NSN) 1055-01-226-6338 shall be known as the MK 154.

1.1 Background. IROAN is defined as "That maintenance technique which determines the minimum repairs necessary to restore equipment components or assemblies to prescribed maintenance serviceability standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement."

2.0 APPLICABLE DOCUMENTS. The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

2.1 Military Specifications.

MIL-C-46168	Coating, Aliphatic Polyurethane, Chemical Agent Resistant
MIL-C-53039	Coating, Aliphatic Polyurethane, Single Component, Chemical Agent Resistant

2.2 Military Standards.

MIL-STD-129	DoD Standard Practice for Military Marking
MIL-STD-130	Identification Marking of US Military Property
MIL-STD-461	Requirements for the control of Electromagnetic Interference Emission and Susceptibility

2.3 Other Government Documents And Publications.

DOD 4000.25-1-M	MILSTRIP Manual
DOD 4160.21-M	Defense Materiel Demilitarization Manual
SL-3-09962A	Launcher, Mine Clearance MK 154 Mod 0
TM 09962A-13&P/2	Mark 1 Mod 0 Mine Clearance System
TI-09962A-35/1	Fabrication and Installation of Electrical Connector Guard for the Launcher, Mine Clearance MK 154
TM 3080-12	Corrosion Prevention and Control for Marine Corps Equipment
TM 3080-50	Corrosion Control Procedures Depot Maintenance Activities for Marine Corps Equipment
TM 4700-15/1H	Ground Equipment Record Procedures
TM 4750-15/1	Painting and Registration Marking for Marine Corps Combat and Tactical Equipment
TM 4750-15/2	Camouflage Paint Patterns
Engineering Drawing 835028A0000 CAGE 01365	Mine Clearance Launcher, MK154, Marine Corps
Engineering Drawing 835028B0000 CAGE 01365	Container Assembly for MK 154 Marine Corps

Military Handbooks (For Guidance)

MIL-HDBK-61	Configuration Management Guidance

2.4 Industry Standards.

ANSI/ISO/ASQC Q9002-1994	- Quality Systems-Model for Quality Assurance in Production, Installation, and Servicing
ASTM D 3951	Standard Practice for Commercial Packaging

Industry Standards (For Guidance)

ANSI/EIA-649	National Consensus Standard for Configuration Management

Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Telephone (215) 697-2179 or DSN 442-2179, or http://www.dodssp.daps.mil. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained through the Contracts Department, (Code 891), P. O. Drawer 43019, 814 Radford Blvd., MCLB, Albany, GA 31704-3019, commercial telephone number (229) 639-6753 or DSN 567-6753. Copies of engineering drawings, if applicable, may be obtained by contacting Supply Chain Management Center, Attn: Code 583-1, 814 Radford Blvd., Suite 20320, Albany, Georgia, 31704-0320, commercial telephone number (229) 639-6410 or DSN 567-6410.

3.0 REQUIREMENTS

3.1 General Tasks. In fulfilling the specified requirements, the Contractor shall:

a. Provide materials, labor, facilities, missing parts, and repair parts necessary to inspect, diagnose, restore, and test the MK 154. Upon completion of IROAN, repaired equipment shall be Condition Code "A".

b. Provide all tools and test equipment required to test, inspect, repair, and calibrate the MK 154.

c. Conduct in process and final on-site testing for witness by a Marine Corps Systems Command (MCSC), (Code CSLE), Albany, Georgia representative.

d. Be responsible for all structural, electrical and mechanical requirements associated with the restoration of the MK 154.

3.2 Detail Tasks. The following tasks describe the different phases for IROAN of the MK 154.

3.2.1 Phase I - Pre-Induction. The contractor shall perform a Pre-Induction Inspection Analysis for each MK 154 using the Contractor's diagnosis, inspection and testing techniques to determine extent of work and parts required. This inspection shall include all items associated with the MK 154 as found in SL-3-09962A, TM 09962A-13&P/2, and TI-09962A-35/1. These findings shall be annotated on a Pre-Induction Check List (Appendix A) and shall be provided to the government in accordance with Paragraph 4.0 of this SOW.

3.2.2 Phase II - IROAN. After Pre-Induction Tests and Inspections have been completed, repair of the MK 154 shall be accomplished by the contractor in accordance with this SOW.

Deficiencies noted on the Pre-Induction Checklist, (Appendix A), during Phase I shall be repaired/replaced. The contractor shall use the "List of Defective Parts and Assemblies (Appendix B)" to list all defective parts and assemblies. The contractor shall also use the "List of Repair Parts and Assemblies Required for Repairs (Appendix C)", to report the parts used on the repaired MK 154. Components or assemblies shall not be disassembled for replacement of mandatory parts unless that part has failed, or the component assembly wherein the part is located is disassembled for repair.

a. Pre-Induction Inspection Checklist - Information recorded on the Pre-Induction Inspection Checklist (Appendix A) shall be used as a guide to repair the MK 154 system in accordance with this SOW.

b. Technical Instruction (TI) - All TI's not previously applied to the MK 154 shall be applied during the IROAN and shall be annotated on Equipment Record Jacket in accordance with TM 4700-15/1H.

c. Corrosion - For corrosion prevention and treatment use TM 3080-12 and TM 3080-50.

d. Fluid Leaks - The following shall be used as a guide in determining degree of fluid loss:

(1) Class I - Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.

(2) Class II - Leakage of fluid great enough to form drops, but not enough to cause drops to fall from the item being checked/inspected.

(3) Class III - Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

NOTE: A Class I leak, except in fuel or brake systems, is an acceptable condition at any time and does not require corrective action.

e. Belts - Replace all.

f. Data Plates - All required data plates and decals shall be in place and shall be legible. Each repaired MK 154 shall have an IROAN data plate affixed to the main unit in close proximity to the existing data plate. The data plate shall meet the requirements of MIL-STD-130 and TM 4750-15/1 and shall contain the Equipment Serial Number, date of IROAN, Date of SOW, SOW number, and Company name of contractor completing work.

g. Painting/Coating (Exterior/Interior) - If painting/coating is required, the MK 154 shall be cleaned in accordance with TM 3080-50, Chapter 4, and coated with Aliphatic Polyurethane Coating, in accordance with MIL-C-46168 or MIL-C-53039 using TM 4750-15/2 as pattern guidance if required.

h. Demilitarization - All end items that are identified as non-repairable and require demilitarization codes, shall be reported to the MCSC, (Code CSLE), Albany, Georgia representatives, who will provide disposition instructions in accordance with DOD 4160.21-M.

i. Electromagnetic Emission - All requirements pertaining to control of electromagnetic interference, emission and susceptibility shall be in accordance with MIL-STD-461.

j. Hardware.

(1) Replace broken, unserviceable and/or missing hardware including nuts, bolts, screws, washers, turnlock fasteners, mandatory, safety and one-time use items, etc., in accordance with TM 09962A-13&P/2. Unserviceable would include any of the above that failed to function properly.

(2) Ensure proper hardware locking devices are present and operational on all moving mechanical assemblies.

(3) Hardware normally supplied with commercial parts shall be used unless specifically prohibited.

k. Hoses - All hoses and fittings shall be visually inspected for damage or deterioration. Any hose showing signs of leakage, kinking or separation of outer coating shall be replaced. This inspection shall be performed during the Operational Test Inspection (OTI) of the MK 154.

l. Cable Assemblies - All cables and cable connections shall be tested and visually inspected for damage or corrosion. Any cable or cable connector showing signs of damage, corrosion or separation of outer coating shall be repaired/replaced and tested with its respective component/assembly to assure satisfactory compliance with all operational tests.

m. Filters - Replace all.

3.2.3 Phase III - Inspection, Testing and Acceptance.

a. The contractor shall conduct Inspection, Testing and Acceptance of the MK 154 in accordance with TM 09962A-13&P/2.

b. The Contractor shall be responsible for conducting required tests and shall ensure all necessary personnel are available to complete the final acceptance. Acceptance tests shall be held at the Contractor Facility. MCSC (Code CSLE), Albany, Georgia, representatives shall be given a minimum of two weeks notice prior to beginning acceptance testing. The test area shall be cleared of all equipment parts, components, etc., not required for the test.

c. The Contractor shall be responsible for correcting any deficiencies identified during inspection/testing. MCSC (Code CSLE), Albany, Georgia, representatives may require the

Contractor to repeat tests, or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

d. Acceptance Testing/Operational Tests on all MK 154 repaired under the provisions of this SOW shall be accomplished, by the contractor, in accordance with TM 09962A-13&P/2. Operational Tests are to be conducted on each MK 154 upon completion of repairs and prior to the equipment being returned to stock, to insure the unit will perform as required.

3.2.4 Phase IV - Packaging, Handling, Storage, and Transportation (PHS&T).

a. The Contractor shall be responsible for preservation and packaging of item(s) being repaired under the terms of this statement of work. All items shall be in accordance with the best commercial practices of ASTM D 3951.

b. Marking for shipment and storage shall be in accordance with MIL-STD-129.

c. The Marine Corps will provide the contractor with the shipping address(es) for delivery of the repaired equipment. The contractor shall be responsible for arranging for shipment to the pre-designated site(s). The Marine Corps will be responsible for transportation costs associated with shipping the subject equipment to and from the contractor.

3.3 Configuration Management.

3.3.1 Configuration Status Accounting (CSA).

a. The contractor shall record and submit data on retrofit accomplished during Phase II. Any approved Modifications Instructions (MIs) or Engineering Change Proposals (ECPs) not previously applied shall be incorporated during Phase II of the IROAN process.

b. The Contractor shall determine the application status of approved configuration changes by visual inspections to the extent possible. The government will identify the configuration changes to be inspected by furnishing a Configuration Inspection Checklist to the Contractor. The Contractor shall use one checklist per MK 154 to record the inspection findings along with other required data.

c. The Contractor shall record serial numbers of the assemblies listed on the Configuration Inspection Checklist. The Contractor shall also record the information on the Equipment Record Jacket in accordance with TM 4700-15/1H.

3.3.2 Configuration Control. The contractor shall apply configuration control procedures to established configuration items. The baseline configuration for the MK 154 has been established by Marine Corps Drawing numbers 835028A0000, CAGE 01365, for the Mine Clearance Launcher, and 835028B0000, CAGE 01365, for the container and applicable MIs and ECPs. The contractor shall not implement configuration changes to an item's documented performance or design characteristics without prior written authorization. If it is necessary to temporarily depart

from the authorized configuration, the contractor shall prepare and submit a Request for Deviation. MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing this configuration control document.

3.4 Quality Assurance Provisions. The Contractor shall provide and maintain a Quality System that as minimum adheres to the requirements of ANSI/ISO/ASQC Q9002-1994 Quality Systems-Model for Quality Assurance in Production, Installation, and Servicing.

3.5 Acceptance. The performance of the Contractor and the quality of work delivered, including all equipment furnished and documentation written or compiled, shall be subject to in-process review and inspection during performance. Inspection may be accomplished in-plant or at any work site or location, and MCSC (Code CSLE), Albany, Georgia representatives shall be permitted to observe the work or to conduct inspection at all reasonable hours. Final Inspection and Acceptance Testing shall be conducted at the Contractor Facility. Final acceptance shall be conducted on 100 percent of items to verify that the units meet all requirements.

3.6 Rejection. Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCSC (Code CSLE), Albany, Georgia. The Contractor shall, at no additional cost to MCSC (Code CSLE), Albany, Georgia, provide the following:

a. Develop an approach for modification or correction of all deficiencies.

b. Upon approval of a documented approach, the Contractor shall correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.

3.7 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM). The Management Control Activity (MCA/Code 573-2) will coordinate Government Furnished Equipment/Government Furnished Materiel (GFE)/(GFM) requests and maintain a central control system on all government owned assets in the contractor's possession. The MCA will forward a GFE Accountability Agreement to the contractor for signature on an annual basis to establish a chain of custody and identify property responsibilities for Marine Corps assets. The contractor is to acknowledge receipt of GFM to the MCA within 15 days of receipt. (This can be done by mailing (Materiel Management Department, Management Control Activity (Code 573-2) 814 Radford Blvd, STE 20320, Albany, GA 31704-0320) or faxing (commercial 229-639-5498 or DSN 567-5498) a copy of the DD1348).

3.8 Contractor Furnished Materiel (CFM). The Contractor may requisition materiel as required in the performance of the SOW through the DoD Supply System. DoD 4000.25-1-M (MILSTRIP) Chapter 11 provides guidance to contractors on the requisitioning process. The contractor's decision to utilize CFM procured from the DoD Supply System shall be based upon cost effectiveness, availability of materiel and the required completion/delivery date.

4.0 REPORTS. All report deliverables shall be submitted in hard copy to Commander, (Code CSLE), 814 Radford Blvd., Suite 20320, Albany, Georgia 31704-0320, unless directed otherwise in a Contract Data Requirements List.

4.1 Repairable Item Inspection Report. The Contractor shall provide a Repairable Item Inspection Report for each MK 154. The report shall be identified by United States Marine Corps Serial Number and be sent to MCSC Code CSLE, Albany, Georgia.

4.2 Monthly Progress Reports. The Contractor shall provide Monthly Progress Reports summarizing the progress and status of the IROAN Program. The reports shall identify, by United States Marine Corps Serial Number, each MK155 inducted for repair. This report shall be sent to MCSC Code CSLE, Albany, Georgia.

4.3 Pre-Induction Checklist. The Contractor shall complete the, Pre-Induction Inspection Checklist (Appendix A), List of Defective Parts and Assemblies (Appendix B), List of Repair Parts and Assemblies Required for Repairs (Appendix C), for each MK 154 repaired. These documents shall be available during final acceptance testing. One copy of each document shall be provided to MCSC (Code CSLE), Albany, Georgia, 30 days after final acceptance of each MK 154 in PDF Format Media.

The inspection checklist shall contain, but not be limited to the following:

(1) MK 154 serial number. Appendix A, B, and C.
(2) Condition Code of MK 154 at receipt. Appendix A.
(3) Results of operational test. Appendix A.
(4) List of defective parts and assemblies. Appendix B.
(5) List of repair parts and assemblies required for repairs. Appendix C.
(6) Corrosion prevention methods that shall be used will be documented on the first page of Appendix A.

Pre-Induction Inspection Checklist
APPENDIX A

MK154 Serial number:_____ Condition Code at receipt: _____
Results of operational test:

Corrosion prevention methods that shall be used.

Inspect all components for operating/malfunction/defective parts per TM 09962A-13&P/2. Visually check components for leaks, damage, loose parts & hardware. No disassembly of components is allowed unless the component is determined to be defective.

Pre-Induction Inspection Checklist
APPENDIX A

COMPONENT	PASS	FAIL	REMARKS:
Mast Assy	___	___	_____
External-Actuator Cover	___	___	_____
Actuator Arm Lever	___	___	_____
Housing to Actuator Assy	___	___	_____
Hose Assy,Starboard	___	___	_____
Starboard Actuator Manifold	___	___	_____
Starboard Actuator Assy	___	___	_____
Housing-Actuator Hydraulic	___	___	_____
Hose Assy, Port	___	___	_____
Housing - Actuator Hydraulic	___	___	_____
System, Port	___	___	_____
Port Actuator Manifold	___	___	_____
Port Actuator Assy	___	___	_____
Starboard/Port Hinge Arm	___	___	_____
Starboard Door Assy	___	___	_____
Door Seals	___	___	_____
Door Latch Rod, Starboard Door	___	___	_____
Port Door Assy	___	___	_____
Wiring Harness W16	___	___	_____
Platform, Equipped for Access	___	___	_____
Launcher Cylinder Hydraulic Hose Assy	___	___	_____
Launch Cylinder Hose Assys	___	___	_____
Launcher Cylinder	___	___	_____
Launcher Cylinder Swivel Joint	___	___	_____
Elevation Cylinder Hose Assys	___	___	_____
Elevation Cylinder Swivel Joint & Elbows	___	___	_____
Elevation Cylinder Assy	___	___	_____
Elevation Cylinder Manifold	___	___	_____
Elevation Cylinder	___	___	_____
Turnbuckle Connecting Rod	___	___	_____
Elevation Cylinder Linkage Adjustment	___	___	_____
Connecting Rod	___	___	_____
Pivot Pin	___	___	_____
Pivot Bearings	___	___	_____
Center Sheath	___	___	_____
Shield	___	___	_____
Launcher Platform Rail	___	___	_____
Travel Lock Assy	___	___	_____
Pivot Assy	___	___	_____
Bumper	___	___	_____
Stop	___	___	_____
Bracket, Connecting Rod	___	___	_____
Mercury Switch Box	___	___	_____
Pendulum Box Assy	___	___	_____
Rockets Power Distribution Box	___	___	_____
Rocker Arm	___	___	_____
Support Arm	___	___	_____
Arm Sheath	___	___	_____

Pre-Induction Inspection Checklist
APPENDIX A

COMPONENT	PASS	FAIL	REMARKS:
Port/Starboard Intermediate Sheath	___	___	_____
Sequence Lock Manifold	___	___	_____
Sequence Lock Manifold Hydraulic Assys	___	___	_____
Support Arm Tube Assys	___	___	_____
Elbow	___	___	_____
Elbow Bracket	___	___	_____
Three-Hole Bulkhead	___	___	_____
Tube Angle Mounting	___	___	_____
Launcher Housing Tube Assy	___	___	_____
Junction Box A	___	___	_____
Junction Box B	___	___	_____
Limit Switch	___	___	_____
Limit Switch Arm Bracket	___	___	_____
Wiring Harness W15	___	___	_____
Latch Pivot Bracket	___	___	_____
Latch Spring	___	___	_____
Test Plugs	___	___	_____
Nipple	___	___	_____
Coupler	___	___	_____
Lower Seal	___	___	_____
Sheath	___	___	_____
Intermediate Housing Sheath	___	___	_____
Port Housing Guard	___	___	_____
Starboard Housing Guard	___	___	_____
Forward Port Housing Guard	___	___	_____
Aft Port Housing Guard	___	___	_____
Forward Starboard Housing Guard	___	___	_____
Aft Starboard Housing Guard	___	___	_____
Port/Starboard Bar	___	___	_____
Swivel Elbow (Port H2)	___	___	_____
Tie-Down and Adapter Assy	___	___	_____
Tie-Down Adapter	___	___	_____
Tie-Down Assy	___	___	_____
Aft Wall Guard	___	___	_____
Aft Guard Assy	___	___	_____
Aft Port Guard	___	___	_____
Aft Starboard Guard	___	___	_____
Forward Guard Assy	___	___	_____
Cable Guide	___	___	_____
Starboard Cable Guide	___	___	_____
Aft Port Cable Guide	___	___	_____
Lower Engine Access Cover Latch	___	___	_____
Upper Engine Access Cover Striker	___	___	_____
Rail	___	___	_____
Center Channel Assy	___	___	_____
Aft Pallet Rail Tie-Down Bracket	___	___	_____
Port/Starboard Ramp	___	___	_____
Rear Pallet Assy	___	___	_____

Pre-Induction Inspection Checklist
APPENDIX A

COMPONENT	PASS	FAIL	REMARKS:
Wear Plate			
Quick Release Pins			
Starboard Ramp Crossmember			
Ramp Wear Plates			
Aft Pallet			
Forward Pallet Assy			
Housing to Forward Pallet Hose Assys			
Capstan Hydraulic Hose Assy			
Forward Pallet Rail Tie-Down Bracket			
Quick Disconnect Coupler Fitting			
Power Distribution Box Assy			
Quick Disconnect Nipple Fitting			
200A Circuit Breaker			
2A Circuit Breaker			
10A Circuit Breaker			
200A Relay			
10A Relay			
Terminal Block			
Indicator Light Assy			
Toggle Switch			
Slave Plug			
Capstan with Hydraulic Motor Assy			
Capstan Drum			
Reduction Gearbox			
Reduction Gearbox Lubricating Oils			
Reduction Gearbox Oil Change			
Hydraulic Filter Change			
Capstan Hydraulic Motor			
Hydraulic Power Unit			
Manual Hydraulic Pump			
Manual Hydraulic Pump Handle			
Electric Motor/Hydraulic Pump			
Electric Motor/Hydraulic Pump			
Control Manifold			
Reservoir Assy			
Sight Glass			
Relief Valve			
Pressure Gauge			
Manual Pump Outlet Tube			
Manual Pump Inlet Tube			
Clip Spring			
Hydraulic Pump Inlet Tube			
Hydraulic Pump Outlet Tube			
Wiring Harness W12			
Wiring Harness W13			
Wiring Harness W14			
Arm Switch			
Control Box			

Pre-Induction Inspection Checklist
APPENDIX A

COMPONENT	PASS	FAIL	REMARKS:
Control Box & Mounting	____	____	_____
Brackets Assy	____	____	_____
Brackets	____	____	_____
Lamps	____	____	_____
Selector Knob	____	____	_____
Toggle Switch Guard	____	____	_____
Receptacles	____	____	_____
Receptacle Connections	____	____	_____
10A Relay	____	____	_____
Relay Connections	____	____	_____
Filters	____	____	_____
Filter Connections	____	____	_____
System Power Switch	____	____	_____
System Power Switch Connections	____	____	_____
Panel Light	____	____	_____
Panel Light Connections	____	____	_____
Push Switches	____	____	_____
Push Switch Connections	____	____	_____
Rotary Switch	____	____	_____
Rotary Switch Connections	____	____	_____
Launch Angle Indicator	____	____	_____
Circuit Board Assy	____	____	_____
Circuit Board Assembly Connections	____	____	_____
Indicator Light	____	____	_____
Indicator Light Connections	____	____	_____
Raise/Lower Switch	____	____	_____
Raise/Lower Switch Connections	____	____	_____
Electric Wire	____	____	_____
Wire Connections	____	____	_____
Container, Top	____	____	_____
Container , Bottom	____	____	_____
Gasket, Container Joint	____	____	_____

MK154 Serial number:_____

THIS BELOW SPACE IS FOR COMMENTS AND OBSERVATIONS AFTER THE INSPECTION HAS BEEN COMPLETED. Please annotate and initial.

LIST OF DEFECTIVE PARTS AND ASSEMBLIES APPENDIX B

COMPONENT	REMARKS:
Mast Assy	
External-Actuator Cover	
Actuator Arm Lever	
Housing to Actuator Assy	
Hose Assy, Starboard	
Starboard Actuator Manifold	
Starboard Actuator Assy	
Housing-Actuator Hydraulic Hse Assy, Port	
Housing - Actuator Hydraulic System, Port	
Port Actuator Manifold	
Port Actuator Assy	
Starboard/Port Hinge Arm	
Starboard Door Assy	
Door Seals	
Door Latch Rod, Starboard Door	
Port Door Assy	
Wiring Harness W16	
Platform, Equipped for Access	
Launcher Cylinder Hydraulic Hose Assy	
Launch Cylinder Hose Assys	
Launcher Cylinder	
Launcher Cylinder Swivel Joint	
Elevation Cylinder Hose Assys	
Elevation Cylinder Swivel Joint & Elbows	
Elevation Cylinder Assy	
Elevation Cylinder Manifold	
Elevation Cylinder	
Turnbuckle Connecting Rod	
Elevation Cylinder Linkage Adjustment	
Connecting Rod	
Pivot Pin	
Pivot Bearings	
Center Sheath	
Shield	
Launcher Platform Rail	
Travel Lock Assy	
Pivot Assy	
Bumper	
Stop	
Bracket, Connecting Rod	
Mercury Switch Box	
Pendulum Box Assy	
Rockets Power Distribution Box	
Rocker Arm	
Support Arm	
Arm Sheath Port/Starboard	
Intermediate Sheath	

LIST OF DEFECTIVE PARTS AND ASSEMBLIES APPENDIX B

COMPONENT	REMARKS:
Sequence Lock Manifold	
Sequence Lock Manifold Hydraulic Assy	
Support Arm Tube Assys	
Elbow	
Elbow Bracket	
Three-Hole Bulkhead Tube	
Angle Mounting	
Launcher Housing	
Tube Assys	
Junction Box A	
Junction Box B	
Limit Switch	
Limit Switch Arm Bracket	
Wiring Harness W15	
Latch Pivot Bracket	
Latch Spring	
Test Plugs	
Nipple	
Coupler	
Lower Seal	
Sheath	
Intermediate Housing Sheath	
Port Housing Guard Starboard Housing	
Guard	
Forward Port Housing Guard	
Aft Port Housing Guard	
Forward Starboard Housing Guard	
Aft Starboard Housing Guard	
Port/Starboard Bar	
Swivel Elbow (Port H2)	
Tie-Down and Adapter Assy	
Tie-Down Adapter	
Tie-Down Assy Aft Wall	
Guard Aft Guard Assy Aft Port Guard Aft	
Starboard Guard Forward Guard Assy Cable	
Guide Starboard Cable Guide Aft Port Cable	
Guide Lower Engine Access Cover Latch	
Upper Engine Acc Cover Strike Rail	
Center Channel Assy	
Aft Pallet Rail Tie-Down Bracket	
Port/Starboard Ramp	
Rear Pallet Assy	
Wear Plate	
Quick Release Pins	
Starboard Ramp Crossmember	
Ramp Wear Plates	
Aft Pallet	

LIST OF DEFECTIVE PARTS AND ASSEMBLIES APPENDIX B

COMPONENT	REMARKS:
Forward Pallet Assy	
Housing to Forward Pallet Hose Assys	
Capstan Hydraulic Hose Assys	
Forward Pallet Rail Tie-Down Bracket	
Quick Disconnect Coupler Fitting	
Power Distribution Box Assy	
Quick Disconnect Nipple Fitting 200A	
Circuit Breaker	
2A Circuit Breaker	
10A Circuit Breaker	
200A Relay	
10A Relay	
Terminal Block Indicator Light Assy	
Toggle Switch Slave Plug Capstan with	
Hydraulic Motor Assy Capstan Drum	
Reduction Gearbox	
Reduction Gearbox Lubricating Oils	
Reduction Gearbox Oil Change	
Hydraulic Filter Change	
Capstan Hydraulic Motor	
Hydraulic Power Unit	
Manual Hydraulic Pump	
Manual Hydraulic Pump Handle	
Electric Motor/Hydraulic Pump	
Electric Motor/Hydraulic Pump	
Control Manifold	
Reservoir Assy	
Sight Glass	
Relief Valve	
Pressure Gauge	
Manual Pump Outlet Tube	
Manual Pump Inlet Tube	
Clip Spring	
Hydraulic Pump Inlet Tube	
Hydraulic Pump Outlet Tube	
Wiring Harness W12	
Wiring Harness W13	
Wiring Harness W14	
Arm Switch	
Control Box	
Control Bx & Mounting Brackets Assy	
Brackets	
Lamps	
Selector Knob	
Toggle Switch Guard	
Receptacles	
Receptacle Connections	

LIST OF DEFECTIVE PARTS AND ASSEMBLIES APPENDIX B

COMPONENT	REMARKS:
10A Relay	
Relay Connections	
Filters	
Filter Connections	
System Power Switch	
System Power Switch Connections	
Panel Light	
Panel Light Connections	
Push Switches	
Push Switch Connections	
Rotary Switch	
Rotary Switch Connections	
Launch Angle Indicator	
Circuit Board Assy	
Circuit Board Assy Connections	
Indicator Light	
Indicator Light Connections	
Raise/Lower Switch	
Raise/Lower Switch Connections	
Electric Wire	
Wire Connections	
Container, Top	
Container , Bottom	
Gasket, Container Joint	

ADDITIONAL OBSERVATIONS:

MK154 Serial number:_____

ADDITIONAL COMMENTS AND OBSERVATIONS: Please annotate and initial.

COMPONENT	REMARKS:
Mast Assy	
External-Actuator Cover	
Actuator Arm Lever	
Housing to Actuator Assy Hose	
Assy,Strbrd Starboard Starboard	
Actuator Manifold	
Starboard Actuator Assy	
Housing-Actuator Hydraulic Hse	
Assy, Port	
Housing – Actuator Hydraulic	
System, Port	
Port Actuator Manifold	
Port Actuator Assy	
Starboard/Port Hinge Arm	
Starboard Door Assy	
Door Seals	
Door Latch Rod, Starboard Door	
Port Door Assy	
Wiring Harness W16	
Platform, Equipped for Access	
Launcher Cylinder Hydraulic Hose	
Assy	
Launch Cylinder Hose Assys	
Launcher Cylinder	
Launcher Cylinder Swivel Joint	
Elevation Cylinder Hose Assys	
Elevation Cylinder Swivel Joint &	
Elbows	
Elevation Cylinder Assy	
Elevation Cylinder Manifold	
Elevation Cylinder	
Turnbuckle Connecting Rod	
Elevation Cylinder Linkage	
Adjustment	
Connecting Rod	
Pivot Pin	
Pivot Bearings	
Center Sheath	
Shield	
Launcher Platform Rail	
Travel Lock Assy	
Pivot Assy	
Bumper	
Stop	
Bracket, Connecting Rod	
Mercury Switch Box Pendulum Box	
Assy	
Rockets Power Distribution Box	

COMPONENT	REMARKS:
Rocker Arm Support Arm Arm	
Sheath Port/Starboard Intermediate	
Sheath	
Sequence Lock Manifold	
Sequence Lck Manifold Hydraul Asy	
Support Arm Tube Assys	
Elbow	
Elbow Bracket Three-Hole Bulkhead	
Tube Angle Mounting	
Launcher Housing Tube Assys	
Junction Box A	
Junction Box B	
Limit Switch	
Limit Switch Arm Bracket Wiring	
Harness W15	
Latch Pivot Bracket	
Latch Spring	
Test Plugs	
Nipple	
Coupler	
Lower Seal	
Sheath	
Intermediate Housing Sheath	
Port Housing Guard Starboard	
Housing Guard	
Forward Port Housing Guard	
Aft Port Housing Guard	
Forward Starboard Housing Guard	
Aft Starboard Housing Guard	
Port/Starboard Bar	
Swivel Elbow (Port H2)	
Tie-Down and Adapter Assy	
Tie-Down Adapter	
Tie-Down Assy Aft Wall Guard Aft	
Guard Assy Aft Port Guard Aft	
Starboard Guard Forward Guard Assy	
Cable Guide Starboard Cable Guide	
Aft Port Cable Guide Lower Engine	
Access Cover Latch Upper Eng	
Access Cover Striker Rail	
Center Channel Assy	
Aft Pallet Rail Tie-Down Bracket	
Port/Starboard Ramp	
Rear Pallet Assy	
Wear Plate	
Quick Release Pins	
Starboard Ramp Crossmember	
Ramp Wear Plates	

COMPONENT	REMARKS:
Aft Pallet	
Forward Pallet Assy	
Housing to Forward Pallet Hose Assy	
Capstan Hydraulic Hose Assys	
Forward Pallet Rail Tie-Down Bracket	
Quick Disconnect Coupler Fitting	
Power Distribution Box Assy	
Quick Disconnect Nipple Fitting	
200A Circuit Breaker	
2A Circuit Breaker	
10A Circuit Breaker	
200A Relay	
10A Relay	
Terminal Block Indicator Light Assy	
Toggle Switch Slave Plug Capstan with Hydraulic Motor Assy Capstan	
Drum Reduction Gearbox	
Reduction Gearbox Lubricating Oils	
Reduction Gearbox Oil Change	
Hydraulic Filter Change	
Capstan Hydraulic Motor	
Hydraulic Power Unit	
Manual Hydraulic Pump	
Manual Hydraulic Pump Handle	
Electric Motor/Hydraulic Pump	
Electric Motor/Hydraulic Pump	
Control Manifold	
Reservoir Assy	
Sight Glass	
Relief Valve	
Pressure Gauge	
Manual Pump Outlet Tube	
Manual Pump Inlet Tube	
Clip Spring	
Hydraulic Pump Inlet Tube	
Hydraulic Pump Outlet Tube	
Wiring Harness W12	
Wiring Harness W13	
Wiring Harness W14	
Arm Switch	
Control Box	
Contrl Bx & Mounting Brackets Assy	
Brackets	
Lamps	
Selector Knob	
Toggle Switch Guard	
Receptacles	

COMPONENT	REMARKS:
Receptacle Connections	
10A Relay	
Relay Connections	
Filters	
Filter Connections	
System Power Switch	
System Power Switch Connections	
Panel Light	
Panel Light Connections	
Push Switches	
Push Switch Connections	
Rotary Switch	
Rotary Switch Connections	
Launch Angle Indicator	
Circuit Board Assy	
Circuit Board Assy Connections	
Indicator Light	
Indicator Light Connections	
Raise/Lower Switch	
Raise/Lower Switch Connections	
Electric Wire	
Wire Connections	
Container, Top	
Container , Bottom	
Gasket, Container Joint	

ADDITIONAL NOTES:

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 1704-0188

The Public reporting burden for this collection of information is authorized to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government issuing Contract Officer for the contract/PR No. listed in block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP	TM	Other XXX

D. SYSTEM/ITEM	E. CONTRACT/PR No.	F. CONTRACTOR
Mine Clearance Launcher MK 154		

1. DATA ITEM No.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A001	Contractor's Progress, Status, and Management Report	Monthly Progress Report	

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-MGMT-80227	Paragraph 4.2	MARCORSYSCOM Albany (CSLE)	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION
LT	A	MTHLY	See Blk 16	
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**	
			See Blk 16	

16. REMARKS

Contractor format is authorized.

Block 4 – Tailor DI-MGMT-80227 as follows: Delete paragraphs 10.3g, 10.3h, 10.3i, 10.3j, 10.3k, and 10.3n.

Block 12 – The reporting period shall be from the first to last business day of each month. Initial submission shall be 60 days after contract.

Block 13 – Subsequent submissions shall be 10 days after the last business day of each month.

Distribution Statement A: Approved for public release, distribution is unlimited.

a. ADDRESSEE	b. COPIES Draft	FINAL Reg	FINAL Repro
MCSC Alby (CBG)	0	1	0
15. TOTAL	0	1	0

G. PREPARED BY:	H. DATE	I. APPROVED BY:	J. DATE
Gerald R. Hall	18 Sep 01	Gerald R. Hall	18 Sep 01

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 1704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ Other XXX
D. SYSTEM/ITEM: Mine Clearance Launcher MK 154	E. CONTRACT/PR No.	F. CONTRACTOR
1. DATA ITEM No.: B001	2. TITLE OF DATA ITEM: Repairable Item Inspection Report	3. SUBTITLE
4. AUTHORITY *(Data Acquisition Document No.)*: DI-ILSS-80386	5. CONTRACT REFERENCE: Paragraph 4.1	6. REQUIRING OFFICE: MARCORSYSCOM, Albany (Code CSLE)
7. DD 250 REQ.: LT	9. DIST STATEMENT REQUIRED: A	10. FREQUENCY: AS REQ
8. APP CODE	11. AS OF DATE	12. DATE OF FIRST SUBMISSION: See Blk 16
		13. DATE OF SUBSEQUENT SUBMISSION: See Blk 16

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

16. REMARKS

Block 4 - Contractor format is authorized.

Block 10 - A separate report shall be submitted for each Mine Clearance Launcher MK 154 repaired.

Block 12 & 13 – Submit report by Marine Corps Serial Number 30 days after completion of each Mine Clearance Launcher MK 154.

Block 14 – Reports shall be provided in hard copy form.

Distribution Statement A: Approved for public release, distribution is unlimited.

14. DISTRIBUTION a. ADDRESSEE	b. COPIES Draft	FINAL Reg	FINAL Repro
MCSC, Alby (CSLE)	0	1	0
15. TOTAL	0	1	0

G. PREPARED BY:	H. DATE	I. APPROVED BY:	J. DATE
Gerald R Hall	18 Sep 01	Gerald R Hall	18 Sep 01

DD FORM 1423-1, AUG 96 (EG) PREVIOUS EDITION MAY BE USED

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CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

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A. CONTRACT LINE ITEM NO.

B. EXHIBIT

C. CATEGORY: TDP ______ TM ______ Other XXX

D. SYSTEM/ITEM: Mine Clearance Launcher MK 154

E. CONTRACT/PR No.

F. CONTRACTOR

1. DATA ITEM No.: C001

2. TITLE OF DATA ITEM: Request for Deviation (RFD)

3. SUBTITLE: Configuration Management

17. PRICE GROUP

18. ESTIMATED TOTAL PRICE

4. AUTHORITY *(Data Acquisition Document No.)*: DI-CMAN-80640C

5. CONTRACT REFERENCE: Paragraph 3.3.2

6. REQUIRING OFFICE: MARCORLOGBASES (583)

7. DD 250 REQ.: LT

8. APP CODE:

9. DIST STATEMENT REQUIRED: A

10. FREQUENCY: AS REQ

11. AS OF DATE:

12. DATE OF FIRST SUBMISSION: See Blk 16

13. DATE OF SUBSEQUENT SUBMISSION:

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	FINAL Reg	FINAL Repro
MCSC Alby (CSLE)	0	0	0
MCLBA (583-1)	0	1	0
15. TOTAL	0	1	0

16. REMARKS

Blk 4: Contractor format is authorized and shall be submitted in .doc and .pdf format.

Blk 10 & 12: RFDs shall be submitted to obtain authorization to deliver nonconforming material which does not meet the prescribed configuration documentation.

RFDs will be reviewed and disposition determined within 30 calendar days upon receipt by the government.

RFDs shall be transmitted via e-mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil

Distribution Statement A: Approved for public release, distribution is unlimited.

G. PREPARED BY:	H. DATE	I. APPROVED BY:	J. DATE
[signature]	9-5-01	[signature]	18 Sep 01

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